

REMARKS

Claims 1-15 are now pending in the application. The Examiner is respectfully requested to reconsider and withdraw the rejections in view of the amendments and remarks contained herein.

ELECTION/RESTRICTIONS

Although Applicant maintains that the restriction requirement should be reconsidered and withdrawn, to expedite prosecution, Applicant cancels claims 11 and 12.

REJECTION UNDER 35 U.S.C. § 102

Claims 1-9 stand rejected under 35 U.S.C. § 102(e) as being anticipated by Hiraoka et al (U.S. Pat. No. 6,835,889). This rejection is respectfully traversed.

Notwithstanding, Claims 1-3 are cancelled and Claims 4 and 6-9 are amended. Claim 4 now recites the features of previously pending claims 1, 5, and 10.

The electric circuit according to claim 4 has an active element which is formed from a material for circuit pattern formation having at least one of a conductive material, a semiconductive material, an insulating material, and a dielectric material. Accordingly, the electric circuit pattern is formed within the thickness of substrate, not on the surface of the substrate. Therefore, the electric circuit is installed within the thickness of a substrate itself, so that the substrate including the electric circuit has a small thickness.

On the other hand, Hiraoka et al. does not disclose an active element formed within the substrate. Therefore, when the electric circuit of Hiraoka et al. has an active

element, the electric circuit would not be installed within the thickness of the substrate, so that the substrate including the electric circuit would have a large thickness.

Accordingly, reconsideration and withdrawal of the rejection of claim 4 are respectfully requested.

Claims 6-9 depend from claim 4 and should be in condition for allowance for at least the same reasons as set forth above.

REJECTION UNDER 35 U.S.C. § 103

Claims 1-10 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Hiraoka et al (U.S. Pat. No. 6,835,889). This rejection is respectfully traversed.

As stated above, Claims 1-3 are cancelled and Claims 4 and 6-9 are amended. Claim 10 is also cancelled.

Claim 4 calls for an active element formed from a material for circuit pattern formation having at least one of a conductive material, a semiconductive material, an insulating material, and a dielectric material. Accordingly, the electric circuit pattern is formed within the thickness of substrate, not on the surface of the substrate. Since the electric circuit is installed within the thickness of a substrate itself, the substrate including the electric circuit has a small thickness.

In contrast, Hiraoka et al. does not disclose an active element formed within the substrate. When the electric circuit of Hiraoka et al. has an active element, the electric circuit would not be installed within the thickness of the substrate, so that the substrate including the electric circuit would have a large thickness.

Accordingly, reconsideration and withdrawal of the rejection of claim 4 are respectfully requested.

Claims 6-9 depend from claim 4 and should be in condition for allowance for at least the same reasons as set forth above.

NEW CLAIMS

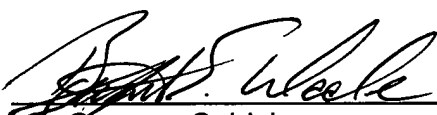
New claims 13-15 are added. New claim 13 depends from claim 4 and includes the features of cancelled claim 2. Claim 14 depends from claim 4 and includes the features of cancelled claim 3. Claim 15 depends from claim 4 and includes the feature disclosed in the Specification at page 20, lines 6-10.

CONCLUSION

It is believed that all of the stated grounds of rejection have been properly traversed, accommodated, or rendered moot. Applicant therefore respectfully requests that the Examiner reconsider and withdraw all presently outstanding rejections. It is believed that a full and complete response has been made to the outstanding Office Action, and as such, the present application is in condition for allowance. Thus, prompt and favorable consideration of this amendment is respectfully requested. If the Examiner believes that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at (248) 641-1600.

Respectfully submitted,

Dated: October 26, 2005

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